

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 12/02/99

Date Received: 11/24/99

Project: Metro Self Monitor-PO# M63110

Date Samples Extracted: 11/24/99

Date Extracts Analyzed: 11/24/99

**RESULTS FROM THE ANALYSIS OF THE WATER SAMPLE
FOR CHROMIUM, COPPER, NICKEL, ZINC
USING METHOD 6010**

Samples Processed Using Method 3005A

Results Reported as mg/L (ppm)

<u>Sample ID</u>	<u>Chromium</u>	<u>Copper</u>	<u>Nickel</u>	<u>Zinc</u>
M63110	0.42	0.44	0.40	0.11
Method Blank	<0.05	<0.05	<0.05	<0.05

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**QUALITY ASSURANCE RESULTS
FOR TOTAL METALS BY
INDUCTIVELY COUPLED PLASMA (ICP)
(METHOD 6010)**

Laboratory Code: 911067-01 (Duplicate)

Analyte	Reporting Units	Sample Result	Duplicate Result	Relative Percent Difference	Acceptance Criteria
Chromium	mg/L (ppm)	0.26	0.26	0	0-20
Copper	mg/L (ppm)	0.53	0.59	11	0-20
Nickel	mg/L (ppm)	0.28	0.31	10	0-20
Zinc	mg/L (ppm)	0.14	0.17	19	0-20

Laboratory Code: 911067-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	% Recovery MS	% Recovery MSD	Acceptance Criteria	RPD
Chromium	mg/L (ppm)	5	0.26	92	101	80-120	9
Copper	mg/L (ppm)	5	0.53	95	105	80-120	10
Nickel	mg/L (ppm)	10	0.28	91	98	80-120	7
Zinc	mg/L (ppm)	5	0.14	92	106	80-120	14

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	% Recovery LCS	% Recovery LCSD	Acceptance Criteria	RPD
Chromium	mg/L (ppm)	5	105	107	80-120	2
Copper	mg/L (ppm)	5	104	107	80-120	3
Nickel	mg/L (ppm)	10	103	104	80-120	1
Zinc	mg/L (ppm)	5	102	105	80-120	3

FRIEDMAN & BRUYA, INC.
3012 16th Avenue West
Seattle, WA 98119-2029
(206) 285-8282

DH 11.24.99 CI₁

SAMPLE CHAIN OF CUSTODY

Send Report To:

Company Alaskan Copper Works

Address 628 Hendon Vt

City, State, Zip: Seattle WA 98131

Phone # 206-382-8379

FAX # 206-382-4309

Date 11-24-99

SITE NO.

PROJECT NAME

PURCHASE ORDER #

7238

metro self monitor

m 63110

SAMPLERs (signature)

PROJECT LOCATION

[Signature]

3200 6th Ave S.

REMARKS

SAMPLE DISPOSAL INFORMATION

		<input type="checkbox"/> Dispose after 30 days <input checked="" type="checkbox"/> Return Samples <input type="checkbox"/> Call for Instructions
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[illegible]

~~SIGNATURE~~

PRINT NAME

COMPANY

Date _____

Time

Relinquished by:

General A. Thompson

COMPANY
Acu

Date
11/24/85

Time
10:36 am

Received by:

Katherine Trafton

Fst Binc

11/24/99

10:36 A

Relinquished by:

Received by:

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Charlene Jensen, M.S.
Bradley T. Benson, B.S.
Kurt Johnson, B.S.

3012 16th Avenue West
Seattle, WA 98119-2029
TEL: (206) 285-8282
FAX: (206) 283-5044
e-mail: fbi@isomedia.com

December 2, 1999

Gerry Thompson, Project Manager
Alaskan Copper Works
628 South Hanford St.
Seattle, WA 98134

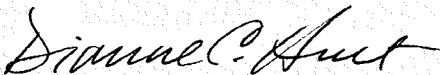
Dear Mr. Thompson:

Included are the results from the testing of material submitted on November 24, 1999 from your Metro Self Monitor-PO# M63110 project. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.



Dianne C. Hurt
Project Manager

Enclosures
ACU1202R.DOC

FRIEDMAN & BRUYA, INC.

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December 2, 1999

DUPLICATE COPY

INVOICE #99ACU1202-2

Accounts Payable
Alaskan Copper Works
628 South Hanford St.
Seattle, WA 98134

RE: Project Metro Self Monitor Grab-PO# M63110: Results of testing
requested by Gerry Thompson for material submitted on November 24, 1999.

1 water sample analyzed for
Chromium, Copper, Nickel, and Zinc
using Method 6010 @ \$80 per sample

\$ 80.00

Amount Due

\$ 80.00

PLEASE NOTE: As a convenience for our valued clients, we can accept credit cards (VISA, MasterCard or government purchasing cards) for payment on our invoices. Please contact our office if you would like to take advantage of this service.

FEDERAL TAX ID: (b) (6)